

AGU, I.A., gornyy inzh.; REVALOV, M.A., gornyy inzh.

Strengthening a section of an open pit side with rods and piles.
Cor. zhur. no.10:19-22 O '64. (NIRI 18:1)

I. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut,
Leningrad.

REVAZOV, M.I.

Improving the flowsheet of cement loading in bulk. TSegment 24
no.4:25-26 Jl-Ag '58. (MIRA 11:9)
(Cement)

REVAZOV, V.S. (Moskva, B. Savvinskiy per., d.7, dv.4).

Intracerebral pathway of the facial nerve in man during uterine development
Arkh.anat.,gist. i embr. 35 no.5:106-107 S-0 '58 (MIRA 11:12)

1. Kafedra normal'noy anatomi (zav. - deystvitel'nyy chlen AMN SSSR.
prof. V.N. Ternovskiy) 2-go Moskovskogo meditsinskogo instituta
imeni N.I. Pirogova.

(NERVES, FACIAL,embryology
intracerebral pathway in human fetuses (Rus))

REVAZOV, V.S.

Czechoslovak morphological journal "Ceskoslovenska morfologie"
in 1963. Arkh. anat., gist. i embr. 48 no.5:105-109 My '65.
(MIRA 19:1)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent AMN
SSSR prof. D.A. Zhdanov) 1-го Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M. Sechenova. Submitted June 23, 1964.

REVAZOV, V.S.

Intracerebral relations between the facial and trigeminal nerve in
man. Zhur.nevr. i psikh. Supplement:34-35 '57. (MIRA 11:1)

1. Kafedra anatomii (zav. - prof. V.N.Ternovskiy) II Moskovskogo
meditsinskogo instituta.
(NERVES, FACIAL)

REVAZOV, V.S. (Moskva, Novodevichiy proyezd, 2, kv.83)

Czechoslovakian morphological journal "Ceskoslovenska morfologie"
for 1962. Arkh. anat., hist. i embr. 45 no.12:69-73 D '63.
(MIRA 17:8)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent
AMN SSSR prof. D.A. Zhdanov) 1-go Moskovskogo ordena Lenina
meditsinskogo instituta imeni Sechenova.

REVAZOV, V.S.

Czechoslovak morphological journal "Ceskoslovenska Morfologie", 1960.
Reviewed by V.S.Revasov. Arkh. anat., hist. i embr. 42 no.3:121-124
Mr '62. (MIRA 15:5)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent AMN SSSR prof.
D.A.Zhidanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni
I.M.Sechenova. Adres avtora: Moskva, Mokhovaya 11, korpus teoreticheskikh
kafedr I Moskovskogo ordena Lenina meditsinskogo instituta.
(CZECHOSLOVAKIA--MORPHOLOGY--PERIODICALS)

TSEYTLIN, Kh.L.; STRUNKIN, V.A.; REVAZOV, Ye.K.

Effect of cathodic polarization on the stability of tantalum
in hydrochloric acid. Zhur.prikl.khim. 33 no.2:345-348
F '60. (MIRA 13:5)

1. Institut organicheskikh poluproduktov i krasiteley imeni
K.Ye.Voroshilova.
(Tantalum) (Polarization(Electricity))

REVAY, T.

REVAY, T. Remarks on Sandor Szabo's article "The New Hungarian Camera", also, remarks by S. Szabo. p. 26.

No. 22, Nov. 1955.

MUSZAVI ELET.

TECHNICITY

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

Yellow acetone and sylvan oils as motor fuel. (A preliminary report.) A. N. Revazov. *Lesokhim. Prom.* 1940, No. 1, 53-4; *Khim. Referat. Zhur.* 1940, No. 6, 110; cf. C. A. 34, 2164. Rectification of yellow acetone oils gives 90% of a product of d. 0.802, b. 68-128°, 80% distg. off up to 100°, octane no. 95, having properties similar to those of 1st-grade gasoline. Sylvan oils treated similarly produce fractions which are similar to aviation gasolines (d. 0.815, b. 60-122°, 89% distg. up to 100°, octane no. above 90). Both products have an acidity of 0.01.

W. R. Henn

21

new solvent from waste products [of wood distillation]. - A. M. Kavunovskii. Leningrad, 1938, No. 5, 33-4; Khim. Referat. Zhur. 2, No. 4, 121-2 (1939).— The waste products of the rectification of crude CH_3OH are diluted with water (1:1) and rectified. The fraction boiling up to 80° (40-50% of the charge), is treated with alkali and rectified. The solvent "M" boils between 70 and 77° and its yield is 30-30% of the initial crude material. It is clear, colorless, sp. gr. 0.861, sily, in water 54% for 1:1 and 86% for 1:4, content of ketones (calcd. to acetone) 41.7%, acidity 0.019% (calcd. to HCOOH) to acetone) 41.7%, acidity 0.019% (calcd. to HCOOH). Solvent "M" and 95% of the solvent boils at 69-81°. Solvent "M" can also be obtained from the floating alc. oils.

W. R. Henn

TSEYTLIN, Kh.L.; REVAZOV, Ye.K.; STRUNKIN, V.A.

Effect of the cathodic polarization of tantalum on its electric conductivity. Zhur.prikl.khim. 33 no.4:850-854 Ap '60.
(MIRA 13:9)

1. Institut organicheskikh poluproduktov i krasiteley imeni
K.Ye. Voroshilova.
(Tantalum--Electric properties)

S/080/60/033/04/17/045

AUTHORS: Tseytlin, Kh.L., Revazov, Ye.K., Strunkin, V.A.

TITLE: The Effect of Cathode Polarization of Tantalum on Its Electroconductivity

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 4, pp 850 - 854

TEXT: Cathode polarization of tantalum in hydrochloric acid is accompanied by hydrogenation of the metal and leads to its cracking. In the experiments tantalum plates (with about 1% of niobium), 1 mm thick and 90 mm long and with a surface of $30 - 35 \text{ cm}^2$, were used as cathode. A graphite rod served as anode. The measurements were carried out in an oil bath and lasted 5 - 10 minutes. Under the conditions studied the electric resistance of tantalum in the case of cathode polarization increases in direct proportion to the quantity of hydrogen absorbed. With an increase in the duration of the cathode polarization of tantalum and the current density from 0.1 to 10 A/m^2 , the amount of hydrogen absorbed by tantalum increases and consequently also its electroresistance. With an increase in the thickness of tantalum from 1 to 5 mm the time needed for the saturation with hydrogen increases considerably, and so does correspondingly the electroresistance. Cracking of tantalum starts during cathode polarization, if its

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S/080/60/033/04/17/045

The Effect of Cathode Polarization of Tantalum on Its Electroconductivity

specific electric resistance increases by 25 - 40% at 20°C and by 90 - 110% at 60°C relative to the initial value.

There are: 2 diagrams, 3 graphs and 8 references, 6 of which are Soviet and 2 German.

ASSOCIATION: Institut organicheskikh poluproduktov i krasiteley imeni K.Ye. Voroshilova
(Institute of Organic Semi-Finished Products and Dyestuffs imeni K.Ye.
Voroshilov)

SUBMITTED: April 22, 1959

Card 2/2

18.8000

77639
SOV/80-33-2-14/52

AUTHORS: Zeytlin, Kh. L., Strunkin, V. A., Revazov, Ye. K.

TITLE: Effect of Cathodic Polarization Upon Stability
of Tantalum in Hydrochloric Acid

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2,
pp 345-348 (USSR)

ABSTRACT: The authors studied the effect of temperature and
current density upon degree of disintegration of
tantalum metal which takes place when negative
potential is applied to the latter. Negative
potential was created in tantalum by: (1) - connecting
tantalum plates (thickness 1 mm and area cm²) with the
negative pole of a current source, as shown in Fig.
1:

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Effect of Cathodic Polarization Upon
Stability of Tantalum in Hydrochloric Acid

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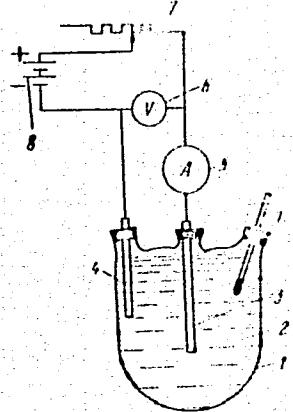


Fig. 1. Diagram for application of negative potential to tantalum: (1) 0.75 l flask; (2) 20% HCl; (3) graphite anode; (4) tantalum sample; (5) milliammeter; (6) voltmeter; (7) variable resistance; (8) source of direct current; (9) thermometer. Anode-cathode distance = 2.5 cm.

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Effect of Cathodic Polarization Upon
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and, (2) - by contacting (through an elastic rubber ring or a metal conductor) the tantalum plates with a steel bar (diameter 15 mm, length 150 mm), both immersed in 20% HCl. Duration of experiments (performed at 20 and 60°) was determined by appearance of fissures on the sample. Fig. 2 shows the results of this study.

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Effect of Cathodic Polarization Upon
Stability of Tantalum in Hydrochloric Acid

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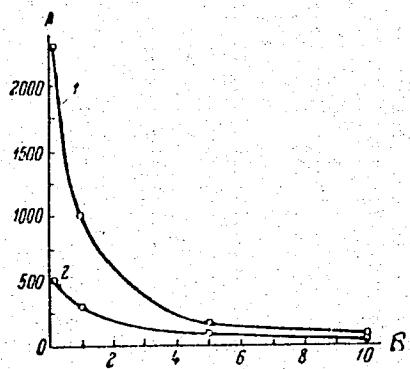


Fig. 2. Tendency of tantalum to crack as a function
of current density at temperature 20° (1) and 60°
(2); A - time to the moment of cracking (in hours);
B - cathode current density (in amp/m²).

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Effect of Cathodic Polarization Upon
Stability of Tantalum in Hydrochloric Acid

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SOV/80-33-2-14/52

Behavior of tantalum in electrolysis of HCl is similar to behavior of steel during cathodic polarization.
Karpenko, G. V., Kripyakevich, R. I., Doklady Akad. Nauk SSSR, 120, 4, 827 (1958). Rise of temperature speeds up the cracking process by speeding up diffusion of atomic hydrogen and its combination into molecules in the body of the metal. In the experiment designed to investigate the action of molecular hydrogen, the tantalum plate, placed into a filter funnel with HCl, was continuously washed with molecular hydrogen (obtained in electrolysis of 30% KOH) which entered the funnel through the filter. No changes were noted in appearance of tantalum. There are 3 figures; 1 table; and 9 references, 7 Soviet, 1 German, 1 U.K. The U.K. reference is: Metal. Ind., 66, 25-26, 406 (1945).

ASSOCIATION: K. Ye. Voroshilov Institute of Organic Intermediates and Dyes (Institut organicheskikh poluproduktov i krasiteley imeni K. Ye. Voroshilova)

SUBMITTED: February 2, 1959

Card 5/5

USSR / Human and Animal Pathology. Nervous System.
Central Nervous System.

S-2

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64741.

Author : Rovazov, V. S.

Inst : Moscow Medical Institute.

Title : Anatomy of the Superior Olivary Body in Man, and
its Interrelationship with Surrounding Formations
of the Pons Varioli.

Orig Pub: Uch. zap. Z-Y Mosk. Med. in-t, 1957, 4, 31-34.

Abstract: In 15 examples of the trunk portion of the human
brain, by a laboratory method, it was demonstrated
that the superior olivary body (SOB) is located
in the rear section of the pons varioli, on the
border between the base and the cap. By its rear
terminus SOB reaches the level of the border of
the pons with the medulla oblongata. On the inner

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REVAZOV, V.S. (Moskva, Novodevichiy proyezd, d.2, kv.83)

Czechoslovak morphology journal, "Ceskoslovenska morfologie", for
1961. Arkh.anat., gist i embr. 43 no.7:111-114 Jl '62.
(MIRA 15:9)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent AMN
SSSR prof. D.A.Zhdanov) I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova.

(CZECHOSLOVAKIA--MORPHOLOGY--PERIODICALS)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4

СИМА В. В.

Dissertation: "The regenerate anatomy of the intracerebral part of the Facial Nerve of Man." Cand. Med. Sci., Second Moscow Medical Institute L. V. Staln, 21 May 54. M. V. K. Nauk. Meditsinskij Institut, Moscow, 21 May 54.

SO: SUK 284, 26 Nov 1954

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

REVAZYAN, A.A.

MASHOVETS, V.P.; REVAZYAN, A.A.

E. m. f. of certain galvanic circuits in cryolite and alumina
fusions. Zhur.prikl.khim. 30 no.7:1006-1012 J1 '57. (MIRA 10:10)

1.Vsesoyuznyy alyuminievo-magniyevyy institut.
(Cryolite) (Alumina)

REVAZYAN, A.A.

Kinetics of the process of aluminum loss in cryolite-alumina
melts. TSvet. met 33 no.8:51-56 Ag '60. (MIRA 13:8)
(Aluminum--Electrometallurgy)

44-3100

77725
SOV/149-60-1-14/27

AUTHOR: Revazyan, A. A.

TITLE: Secondary Reactions and Composition of Anode Gases
in Aluminum Electrolyzers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Tsvetnaya
metallurgiya, 1960, Nr 1, pp 101-107 (USSR)

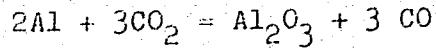
ABSTRACT: This article is a study of CO₂ contained in anode gases in interaction with aluminum dissolved in the fused electrolyte, as well as with anode carbon and carbon foam. CO₂ interaction with dissolved aluminum of the electrolyte. One of the reasons for an incomplete utilization of the current is a reversed reaction between the dissolved metal and the anode gases. Whether the formation of metal is of a chemical nature or is due to a partial discharge of trivalent Al to monovalent, the final results are the same and involving the loss of 6 faradays per

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Biochemical Reactions and composition of
Anode gases in Aluminum Electrolyzers

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g/mol Al₂O₃:



Knowing the metal yield with reference to current (η), it is easy to determine the CO quantity formed in the reaction. Assuming that CO₂ alone is formed at the anode as primary gas, one faraday will produce 5.6 liters of CO₂. The total gas quantity after the reaction will also be $V_{\text{CO}_2} + V_{\text{CO}} = 5.6$ liters.

The portion of CO in it is determined from the equation:

$$c_{\text{CO}} = \frac{V_{\text{CO}}}{V_{\text{CO}_2} + V_{\text{CO}}} \cdot 100 \quad c_{\text{CO}} = 2(1 - \eta) 100. \quad (1)$$

from which it follows that:

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Secondary Reactions and Composition of
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$$C_{CO_2} = 100 - C_{CO}$$

$$C_{CO_2} = (2q - 1) 100. \quad (2)$$

From the above it may be concluded that a 100% metal yield will be accompanied by a 100% CO_2 yield. However, as the metal yield is 85-87% rather than 100%, the quantity of CO_2 will be in accordance with Eq. (2), i.e., $C_{CO_2} = 70\%$ and $C_{CO} = 30\%$, while the total CO formed in the reactions amounts to:



$$C_{CO}^x = C_{CO}^{Al} + C_{CO}^C$$

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Secondary Reactions and Composition of
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By substitutions the author derives the final
expression:

$$C_{CO}^A = C_{CO_2}^k \frac{2(1-\eta)}{2\eta - 1} \quad (5)$$

$$C_{CO}^e = C_{CO}^k - C_{CO_2}^k \frac{2(1-\eta)}{2\eta - 1} \quad (6)$$

which amounts to 86.51% CO₂ and 13.49% CO--proving
that about 2/3 of the total CO in final gas is formed
by the reaction of the dissolved metal with carbon
dioxide formed at the anode. The general consumption
of anode carbon is higher by 6.74% than the theoretical.
CO₂ interaction with polarized anode. Contrary to
opinions prevailing in literature, the author states
that secondary processes cannot attack the carbon of
the anode for the very reason that it is an anode
whose interface with the fused electrolyte is pos-
itively charged--meaning that carbon atoms at the

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Secondary Reactions and Composition of
Anode Gases in Aluminum Electrolyzers

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surface are lacking valent electrons which would effectuate the bonding with oxygen or CO₂. This excludes another reaction of a primary product with the material of the anode. The operation of titanium electrolyzers and the content of their anode gases confirm this premise: Anode gases of titanium electrolyzers contain 66-73% oxygen and only 1.5% CO₂, although the anodes are of carbon. CO₂ interaction with carbon suspended in electrolyte. Until recently, there was no answer to this problem. The author undertook tests with fused electrolytes to which he deliberately added pulverized graphite, analyzing the anode gas content before and after this addition. The former consisted of 99.07% CO₂; the latter contained an average of 21.32% CO₂ and 78.68% CO, proving that there is a reaction between CO₂ of the anode gases and the carbon suspended in the bath formed by the material crumbling

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Secondary Reactions and Composition of
Anode Gases in Aluminum Electrolyzers

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from the anode. The article was recommended by the Chair of Metal Technology and Physical Metallurgy of the Erevan' Polytechnic Institute. (Kafedra tekhnologii metallov i metallovedeniya Erevanskogo politekhnicheskogo instituta). There are 4 tables; and 5 references, 1 Soviet, 3 Italian, 1 U.S. The U.S. reference is: Pearson, Waddington, J. Disc. Faraday Soc, 7, 307.

ASSOCIATION: All-Union Scientific Research Institute for Magnesium and Aluminum. Electro-metallurgical Laboratory (Vsesoyuznyy nauchno-issledovatel'skiy alyuminievo-magnievyy institut. Elektrometallurgicheskaya laboratoriya)

SUBMITTED: April 29, 1959

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REVAZAYAN, A. A.

CARD 1 OF 2

PHASE I BOOK EXPLOITATION 50V2216

5(1) Sovetskaniye po Elektrokhimi. 4th. Moscow, 1956.
 Trudy... [shornik] (Transactions of the Fourth Conference on Electrochemistry; Collection of Articles) Moscow, Izd-vo AN SSSR, 1955. 868 p. Errata slip inserted. 2,500 copies printed.
 Sponsoring Agency: Akademiiye Nauk SSSR. Odeleniye Khimicheskikh Nauk.

Editorial Board: A.N. Prumkin (Rep., Ed.), Academician, O.A. Yesin, Professor, S.I. Zhdanov (Rep., Secretary), B.N. Kabanov, Professor, Professor, S.I. Zhdanov (Rep., Secretary), B.N. Kabanov, Professor, V.A. M. Kolyorkin, Doctor of Chemical Sciences, V.V. Basov, P.D. Lukovtsev, Professor, Z. A. Solov'yav, V.V. Stender, Professor, and G.M. Floriantovich; Ed. of Publishing House: N.G. Yagrov, Tech. Ed.: T.A. Prusakova.

PURPOSE: This book is intended for chemical and electrical engineers, physiologists, metallurgists and researchers interested in various aspects of electrochemistry.

COVERAGE: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences, and the Institute of Physical Chemistry, Academy of Sciences, USSR. The collection pertains to different branches of electrochemistry, double layer theories and galvanic processes in metal electrodeposition and industrial electrolysis. Abridged discussions are given at the end of each division. The majority of reports not included here have been published in periodical literature. No personalities are mentioned. References are given at the end of most of the articles.

Pomenko, A.S., T.M. Abramova, and I.L. Gonikina. (Institut Fizicheskoy Khimii AN SSSR-Institute of Physical Chemistry of the USSR), Mechanism of the Corrosion of Iron, Pages 1-299 Zinc and Aluminum With the Aid of Heavy Oxygen Isotopes 299

Discussion (A.M. Glazberg, A.P. Tomilov, P.D. Lukovtsev, G.A. Teodoradze and contributing authors) 302

PART IV. ELECTRODE PROCESSES IN FUSIONS

Yesin, O.A. (Ural'skiy Politekhnicheskiy Institut-Ural Polytechnic Institute). Electrode Processes in Pulsed Oxides 311
 Piontelli, R., O. Sternheim, M. Franchini, and G. Montanelli (Italy). Investigation of Overvoltage Phenomena in Pulsed Salts 323

Card 13/ 34

Razakov, Yu. V. and N.S. Miltenko (Leningradskiy Politekhnicheskiy Institut imeni M.I. Kalinin-Leningrad Polytechnic Institute imeni M.T. Kalinin). Investigating Ion Exchange Between a Pulsed Metal and Its Salt With the Aid of Radioactive Isotopes 329
 Mashovets, V.P. and A.A. Revazyan (Vsesoyuznyy aluminiumyevropeiskiy institut-Union Aluminum-Magnesium Institute). Mechanism of Anode Discharge During the Electrolysis of Molten Clay 334

Rempel', S.I., L.P. Khodak, and N.A. Anisheva (Ural'skiy Tekhnicheskiiy Institut-Ural Institute of Forest Technology). Mechanism of the Interaction Between Oxygen and a Carbon Anode in Molten Clay 342
 Arshin, L.M. (Ural Polytechnic Institute). Role of Metal-Pulse-Salt Equilibrium in Electrode Processes 345

Card 14/ 34

REVAZIAN, A. A.

"Investigation of the Anode Process in the Electrolysis of
Cryolite - Argillaceous Earth Paste Masses." Gosp Tech Sci, All-
Union Aluminum and Magnesium Inst, Leningrad, 1954. (RZhKhim,
No. 17, Sep 54)

SO: Sum 432, 29 Mar 55

AT 142 JAN A.A.

SOV/137-58-8-16635

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 55 (USSR)

AUTHORS: Mashovets, V.P., Revazyan, A.A.

TITLE: An Investigation of the Anode Process in Electrolysis of an Alumina-Cryolite Melt (Issledovaniye anodnogo protsessa pri elektrolize kriolito-glinozemnogo rasplava)

PERIODICAL: Tr. Vses. alyumin.-magn. in-ta, 1957, Nr 39, pp 288-306

ABSTRACT: Calculation of the relative content of various cations and anions in a melt containing 90 weight % of cryolite and 10 weight % of alumina shows fluorine-containing ions predominate over oxygen-containing (if the ion contents be expressed in percentage of the total number of ions of the given sign, and if it be assumed that the cryolite and alumina have undergone complete dissociation in accordance with the six most probable equations). If it be taken that the mean alumina contents of the melt are < 10 weight %, and if incomplete dissociation of the alumina be assumed, this predominance is even greater. Therefore, current is carried to the anode primarily by the fluorine-containing anions. The anode discharge, however, is effected by oxygen-bearing anions. As applied to electrolysis of a

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SOV/137-58-8-16635

An Investigation of the Anode Process in Electrolysis (cont.)

cryolite-alumina melt, the emf of the $\text{Al}|\text{Na}_3\text{AlF}_6$, $\text{Al}_2\text{O}_3|\text{O}_2(\text{Pt})$ and $\text{Al}|\text{Na}_3\text{AlF}_6$, $\text{Al}_2\text{O}_3|\text{CO}_2(\text{C})$ circuits should correspond to the free energy of the reactions $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$ (1) and $4\text{Al} + 3\text{CO}_2 \rightarrow 2\text{Al}_2\text{O}_3 + 3\text{C}$ (2) under the condition that O_2 and CO_2 , respectively, serve as the cathode current-forming substances in these circuits. To verify this last hypothesis, the emf of a series of galvanic circuits in molten cryolite saturated with alumina was measured by a compensation method at 1010 - 1060°C . In the first circuit, a constant 2.12-v emf was established immediately, and this corresponded to the free energy of reaction (1). This means that O_2 is the active electromotive substance in the cathode. The stable emf of a circuit with a (CO_2 , Pt) electrode was reduced by 1.004 v as compared with the emf of a circuit with an (O_2 , Pt) electrode, and this is in virtually exact agreement with the free energy of the $\text{C} + \text{O}_2 = \text{CO}_2$ reaction. Measurement of the emf of currents with carbon dioxide cathode compels us to regard the theoretical voltage of decomposition of alumina with a carbon anode to be 1.115 v, and the higher values obtained experimentally to be ascribed to overvoltage. This value for decomposition voltage, which is in good agreement with the thermodynamic value for decomposition voltage, is confirmed by extrapolation of the I-V curves.

1. Electrolysis--Analysis
2. Anodes--Performance

I.G.

Card 2/2

REVAZIAN, A. A.

Electromotive force of galvanic cells of fused cryolite.
Alumina V. P. Maslennikov and A. A. Revazian. Zhur.
Trifild. Khim. 30, 1006-12 (1957). The e.m.f. of cells Al||
 $\text{Na}_2\text{AlF}_6 + \text{Al}_2\text{O}_3$ || gas electrode were determined at 1000-15°; the
gas electrodes were: Pt(O) and Pt(O,N) (I), Pt(CO₂) (II),
C(CO₂) (III), and C(O) (IV). The electrolytic cells con-
sisted of 2 concentric porous sintered-corundum cylinders
inside a graphite crucible. The inside cylinder protected
the gas electrode from possible "metallic fog." The Mo
wire connecting the Al electrode and the C gas electrodes
(hollow C tubes) were protected by corundum sleeves and
so was the Pt electrode with the gas flowing through the
tube. Synthetic cryolite ($\text{NaF:AlF}_3 = 3$) was satd. with
 Al_2O_3 . The theoretical e.m.f. of I (2.12 v.) calcd. from the
free energy of the reaction $\text{Al}_2\text{O}_3 + 2\text{Al} + 1.5\text{O}_2$, indicated
that the reaction was reversible. The exptl. e.m.f. of a gas
contg. 12.9% O and 87.1% N was 2.00-2.01, and that of a
gas contg. 3.5% O and 96.5% N was 1.84-1.83 v. The O
electrode approached reversibility at $\text{O}_2 = 1$ atm. so that the
process was more accurately represented by $\text{Al} \rightarrow \text{Al}^{+++} +$
 $4e \rightarrow 4\text{AlO}_4^-$ (depending on the character of the O-conig.
anion) on the anode and $\text{O}_2 + 4e \rightarrow 2\text{O}^-$ or $\text{O}_2 + 2\text{Al}_2\text{O}_3 +$
 $4e \rightarrow 4\text{AlO}_4^-$ on the cathode and $2\text{Al}^{+++} + 8\text{O}^- \rightleftharpoons \text{Al}_2\text{O}_3$ or
 $\text{Al}^{+++} + 3\text{AlO}_4^- \rightleftharpoons 2\text{Al}_2\text{O}_3$ in the liquid phase. The e.m.f.
of II was equal to the theoretical value, 1.10-1.12 v., and
the process was represented by $\text{CO}_2 + 4e \rightarrow \text{C} + 2\text{O}^-$ or
 $\text{CO}_2 + 2\text{Al}_2\text{O}_3 + 4e \rightarrow \text{C} + 4\text{AlO}_4^-$. The e.m.f. of III de-
creased with time from 1.346-1.40 v. during the first 5 min.
to 1.11 v. after 30 min. and remained const. at this value till
the end of the exptl. (120 min.). The C electrode had not
been treated in any way except that it was held over the

MASHOVETS, V. P.; RAZVIZYIN, A. A.

melt for 15-20 min. before submerging. In 1 expt. the CO₂ was stopped after the const. e.m.f. (1.11 v.) was reached, and the e.m.f. decreased to 0.74 v. In another expt. the C electrode was removed and kept in the air a few min. and then submerged; the initial e.m.f. was 1.35-1.45 v. A similar decrease of the e.m.f. with time was exhibited by electrode IV. These results indicated that CO₂ was the controlling factor and that an intermediate gas C₂O was formed.

I. Benowitz

4

2/2

TM OF

REVAZYAN, G.

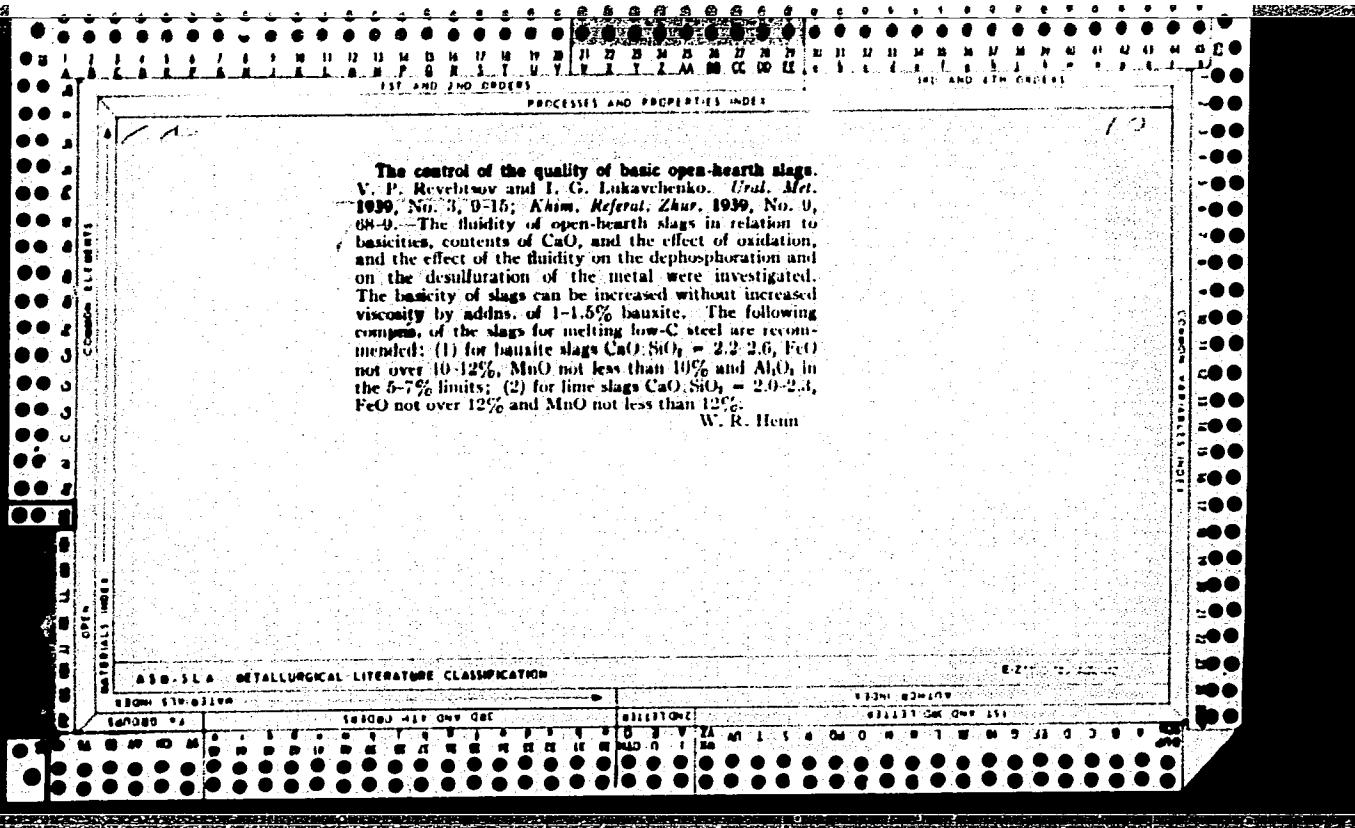
New electric devices. Prom.Arm. 6 nc, 9:44-46 S '53. (MIRA 16:12)

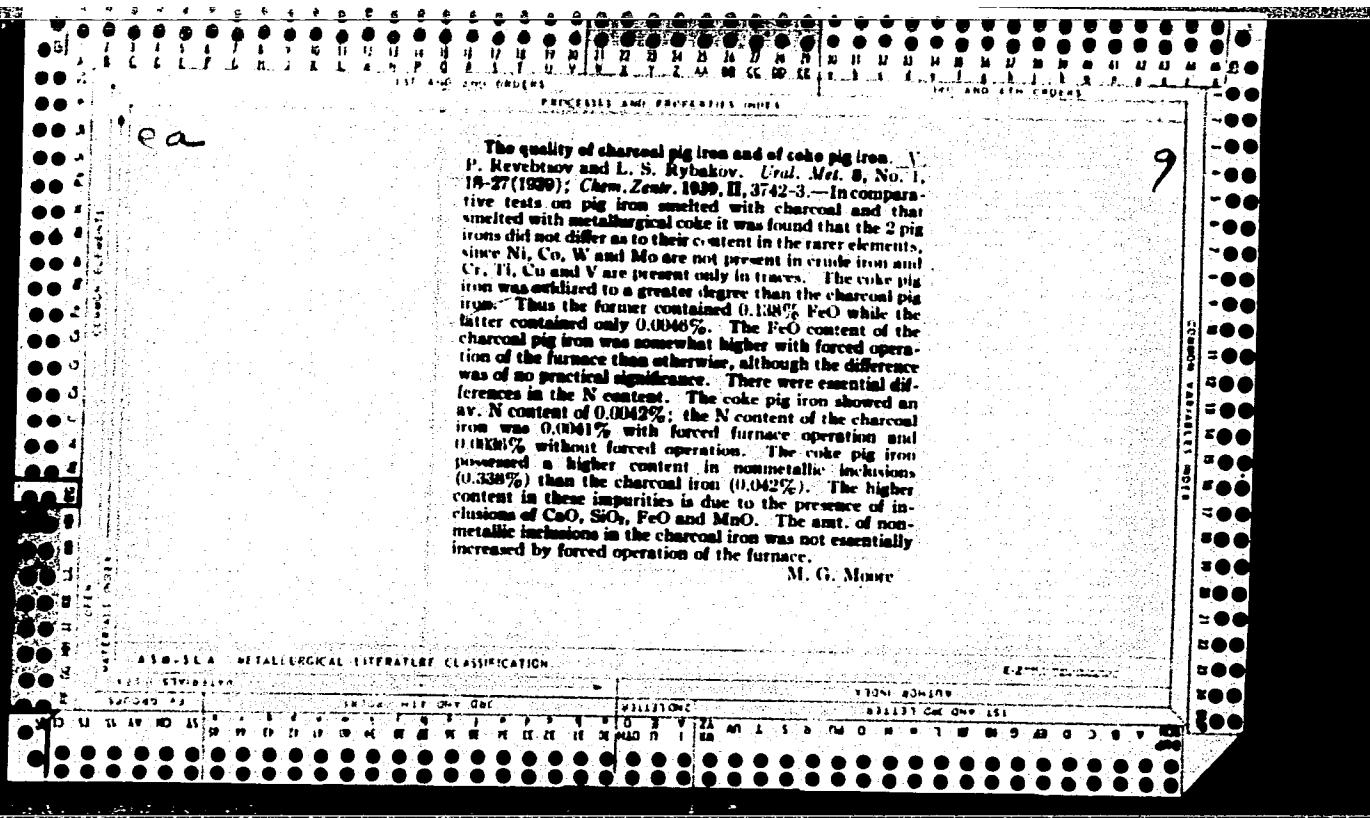
1. Glavnyy konstruktor Yerevanskogo elektroapparatnogo zavoda.

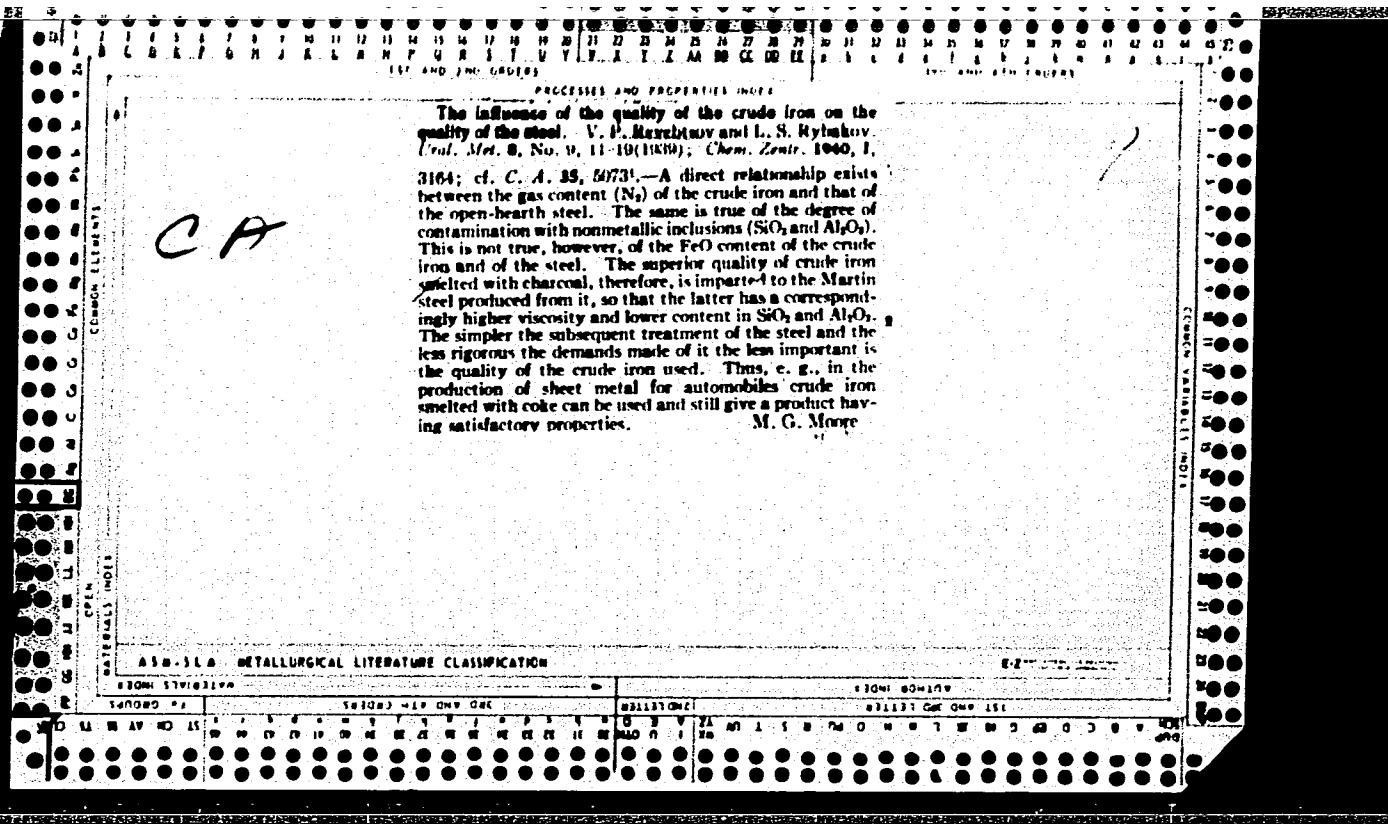
REVCHUK, Z.

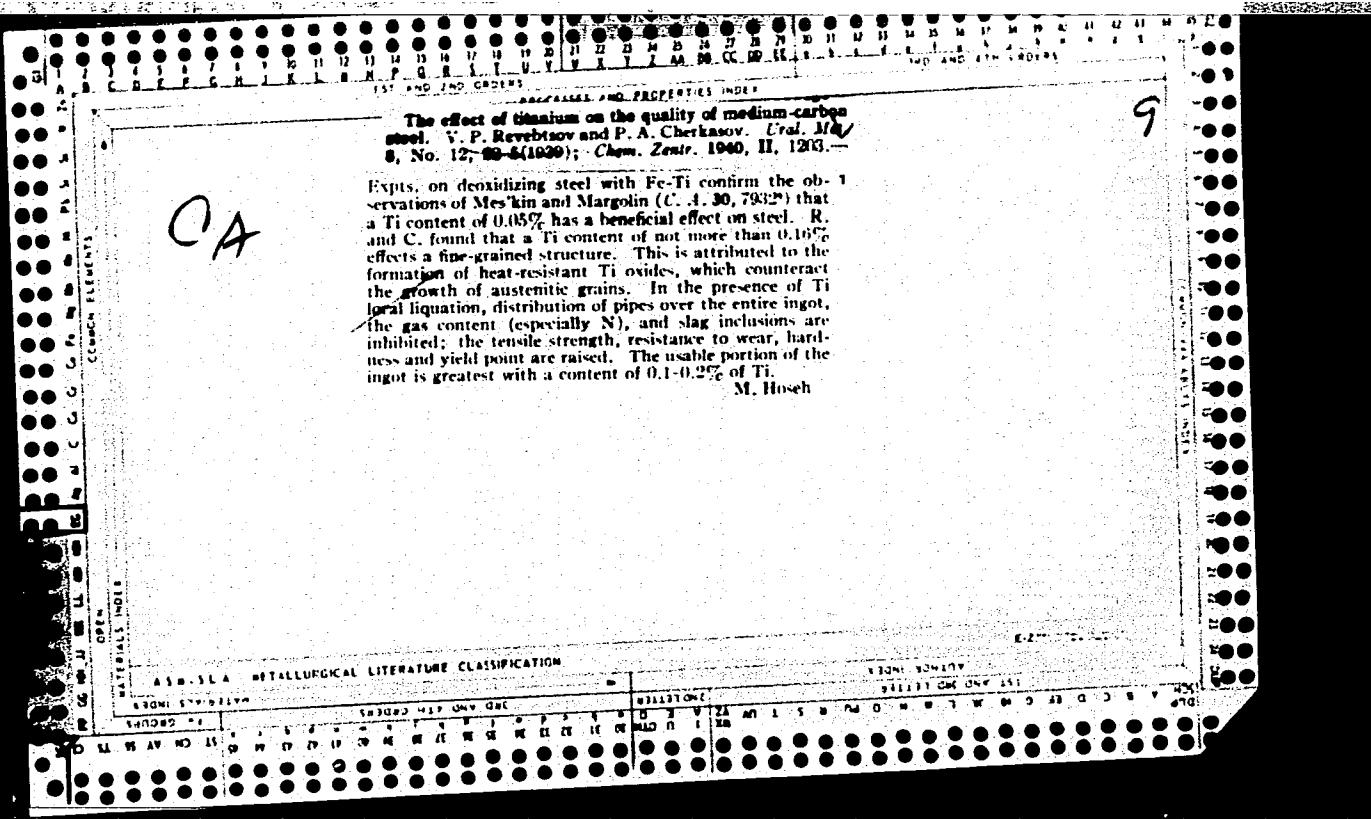
Readers' conference in Vinnitsa. Med. gestra 21 no.3:61
Mr '62. (MIRA 15:3)

(NURSES AND NURSING—PERIODICALS)









44
1st AND 2nd SHEET
PROCESSES AND PROPERTIES WITH

Comparative investigation of the quality of castings of metal cast killed and unkillled. A. P. Reyehtsov and D. P. Strugovshchikov. *Ural. Met.* 9, No. 1, 17-22 (1940); *Chem. Zentr.* 1940, II, 2535-6. -- Tests were made on a killed-steel casting contg. C 0.09-0.1, Mn 0.43-0.44, Ti 0.005, Si trace and S and P 0.01-0.02% and on a steel cast unkillled contg. C 0.08-0.1, Mn 0.41-0.47, and S and P 0.01-0.03%. The casting from the killed steel showed practically the same content in nonmetallic inclusions with an essentially uniform distribution throughout the casting. Also, the distribution of C, Mn, P and S segregations was more uniform in this steel so that it was less vigorously attacked when etched by acids. In the case of the casting from the unkillled steel the middle portion with a higher content in segregations was especially vigorously attacked. Steel killed with Al and ferrotitanium showed least segregation (20-40%) with the most uniform distribution of the segregations and was least attacked by acids. The properties of the steel were not essentially affected by the addn. of 0.006-0.008% of Ti. As compared to steel cast in the unkillled condition, the grain-structure was finer and the impact resistance and tensile strength were higher. M. G. Moore

9

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

REVEHTSOV, V. P.

Quality of charcoal and coke pig iron used in smelting
high-grade converter pig iron. V. P. Revehtsov. *Trudy
Ural. Politekh. Inst. im. S. M. Kirova* 37, 121-16 (1955).
The content of N and H and the proportion of nonmetal
inclusions are not affected by the nature of the fuel, wood
charcoal, or coke. The H content is increased by the pro-
portion of moisture in the blast. Inclusions are affected
by the quality of the ore and by the ash in the fuel. Wood
charcoal is not recommended for high-grade steels. 1. B.

137-1958-3-4727

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 37 (USSR)

AUTHOR: Revebtsov, V. P.

TITLE: A comparison of Methods for the Determination of Furnace-Crew Shift Productivity in Steel Smelting Shops Operating on a Schedule
(Sравнительная оценка методов определения производительности плавильных бригад при работе сталеплавильных цехов по графику)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, collection 66, pp 78-85

ABSTRACT: Existing methods for determining the productivity of shifts by means of a grade scale or by the actual amount of time consumed during smelting do not stimulate the work of furnace crews which operate on a schedule. Moreover, the second method results in wage equalization. More progressive is the method of evaluating the productivity of shifts by means of the time norms of the operational schedule; this method clearly reveals the leading and the lagging crews. It also stimulates material interest of the workers in the creation of rhythmic operation of the steel smelting shops.

G. S.

Card 1/1

137-1958-3-4723

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 36 (USSR)

AUTHORS: Revebtsov, V. P., Valuyev, A. I.

TITLE: The Practice of Operational Computation of Production Costs at Ferrous Metallurgy Plants (Opyt operativnogo kal'kulirovaniya sebestoimosti produktsii na predpriyatiyakh chernoy metallurgii)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 66, pp 121-132

ABSTRACT: A description of methods and results of introducing a system of daily computation of production costs at the Kuznetskiy combine, and at the Novo-Tagil'skiy metallurgical plant. Forms employed for accounting and computation documents are shown.

A. D.

Card 1/1

REVEBTSOV, V.P.; LEDNEV, M.P.; SHILOV, V.I.; OSMINKIN, A.A.; LUPEYKO, V.M.;
KOPTZAYEVA, M.V.

Investigating the quality of carbon steels made from pig irons
containing boron. Izv.Sib.odt.AN SSSR no.11:49-58.
(MIRA 12:2)

1. Ural'skiy filial AN SSSR.
(Steel)

REVEBTSOV, V. P.

Bardin, I.P., V.A. Reznichenko, G.D. Sidorenko, V.P. Revebtsov, and V.M. Lutseyko (Institute of Metallurgy, Academy of Sciences USSR, and Institut metallurgii UFAN (Institute of Metallurgy, Urals Branch, Academy of Sciences USSR). Results of Consolidated Laboratory Investigations of the Application of Air Blast (in the Production) of Niobium Pig Iron, p. 35. Titan i ego splavy. vyp. II: Metallurgiya titana (Titanium and Its Alloys. No. 2: Metallurgy of Titanium) Moscow, Izd-vo AN SSSR, 1959. 179 p.

This collection of papers deals with sources of titanium; production of titanium dioxide, metallic titanium, and titanium sheet; slag composition; determination of titanium content in slags; and other related matters. The sources of titanium discussed are the complex sillimanite ores of the Kyakhtinskoye Deposit (Buryatskaya ASSR) and certain aluminum ores of Eastern Siberia. One paper explains the advantages of using ilmenite titanium slags for the production of titanium dioxide by the sulfuric acid method. Production of metallic titanium by thermal reduction processes (hydrogen, magnesium, and carbon reduction) is the subject of several papers, while other papers are concerned with the electrolytic production of titanium. Other subjects dealt with are interaction of titanium with water vapor and with hydrogen and the determination of titanium in slags.

BARDIN, I.P., akademik; REZNICHENKO, V.A.; SIDORENKO, G.D.; REVEBTSOV,
V.P.; LUPEYKO, V.M.

Results of enlarged laboratory investigations on the converter
blowing of niobium pig iron. Titan i ego splavy no.2:35-39
'59. (MIRA 13:6)

1. Institut metallurgii AN SSSR i Institut metallurgii Ural'-
skogo filiala AN SSSR.
(Bessemer process) (Niobium)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4

VATOLIN, N.A.; REVEBTSOV, V.P.

Hydrogen and nitrogen in titanium wire. Trudy Inst.met.UFAN
SSSR no.3:103-110 '59. (MIRA 13:4)
(Titanium--Metallurgy) (Gases in metals)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

DUKHNEVICH, Vadim Ignat'yevich; ISKHAKOV, Ganim Khanipovich; PANFILOV,
Mikhail Ivanovich; REVELETSOV, Vasiliy Petrovich; GAL'PERIN, A.S.,
inzh., retsentent; VESSEL'OV, N.G., dotsent, kand.ekonom.nauk, red.;
SYRCHINA, M.M., red.izd-va; MATLYUK, R.M., tekhn.red.

[Economic aspects and the organization of open-hearth furnace
repairs] Voprosy ekonomiki i organizatsii remontov martenovskikh
pechey. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i
tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1960. 95 p.

(MIRA 13:9)

(Open-hearth furnaces--Maintenance and repair)

REVEBTSOV, V.P.; MIKHAYLIKOV, S.V.; KAMYSHEV, V.M.

Oxygen blowing of low-phosphorus cast iron in a one-ton rotary furnace. Izv.vys.ucheb.zav.; chern.met. no.7:42-48 '60.

(MIRA 13:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
(Rotary-hearth furnaces) (Oxygen--Industrial application)

S/148/60/000/009/004/025
A161/A030

AUTHORS: Mikhaylikov, S.V., and Revebtsov, V.P.

TITLE: The behaviour of vanadium in blasting with different intensity of oxidation and metal temperature

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 9, 1960, 29-34

TEXT: The best method of producing steel from vanadium which contains pig iron, from the economical point of view, is blasting in converters and obtaining a semi-product for open-hearth furnaces and slag for production of ferrovanadium. Many aspects of the behaviour of vanadium in converter process have been considered, but additional investigations are important in view of the vanadium content in the ore of Kachkanar deposit that will soon be used, and the new processes must be considered (converter process with oxygen blast from top, Kaldo process, rotary process). The basic part of investigation has been carried out in the laboratory, in a 30 kw induction furnace, with 4 kg charge of synthetic preliminarily melted vanadium cast iron, in temperatures up to 1780°C. Most of the heats had initial iron

Card 1/6

S/148/60/000/009/004/025
A161/A030

The behaviour of vanadium ...

temperatures of 1400 to 1500°C. It had been revealed in many studies and confirmed in practice that oxidation of vanadium is intensive in the first minutes of blasting at a low initial temperature of iron and low process temperature, but with a higher initial temperature (1450-1500°) the reaction is inhibited. The cause is not the metal temperature but the intensity of blasting (Fig.1), and oxygen has a stronger effect than air. Besides this, pure oxygen has a stronger effect than an equivalent oxygen volume in blast with air. The effect of blast intensity in an acid furnace is drastic (Fig.4); in experiments with air blast with 50-56 liter/min air the residual vanadium content was drastically decreased, and the volume of oxygen proved sufficient for oxidation of the silicon as well. The vanadium distribution curve at an air blast of 50 liter/min shows that the major factor preventing the oxydation of vanadium in the acid furnace is the higher silicon content in metal that increases during the heat with a low feed of oxygen. As soon as oxidization became intensive and silicon could burn, vanadium started oxidizing with a rate not lower than that in the basic furnace. The results of experiments match the results of industry heats in converters with a bottom and side blast. Experiments with a 20 kg arc furnace also

Card 2/6

S/148/60/000/009/004/025

A161/A030

The behaviour of vanadium ...

confirmed the observations. It may be stated that vanadium can be extracted into slag rapidly and completely through intensive interaction of metal with slag and strongly oxidizing gas. This assumption proved right in experiments with a 1 ton rotary furnace (Detailed information on these experiments with a rotary furnace will be published later). Silicon, manganese, vanadium and chrome burned out down to hundredths of one per cent still having a high carbon content; vanadium oxidized fairly fully despite temperature higher than optimum for devanadation in the second heat half; the decarbonization reaction was also intense. Experiments in industry furnaces are yet necessary. Conversion of vanadium pig iron in rotary furnaces directly into steel, or into a low-carbon semi-product with slag suitable for chemical conversion could be tried. The following basic conclusions can be made: 1) The intensity of blast is the determining factor in the behaviour of vanadium; 2) The devanadation process at high temperatures is possible when the air blast is replaced by oxygen; 3) Devanadation progresses well in rotary furnaces with oxygen blast. There are 4 figures and 6 Soviet-bloc references.

Card 3/6

S/148/60/000/009/004/025
A161/A030

The behaviour of vanadium ...

ASSOCIATION: Institut metallurgii Ural'skogo filiala AN SSSR (Institute of Metallurgy of the Ural Branch of the Academy of Sciences of the USSR)

SUBMITTED: 19 March 1960

Card 4/6

S/148/60/000/009/004/025
A161/A030

The behaviour of vanadium ...

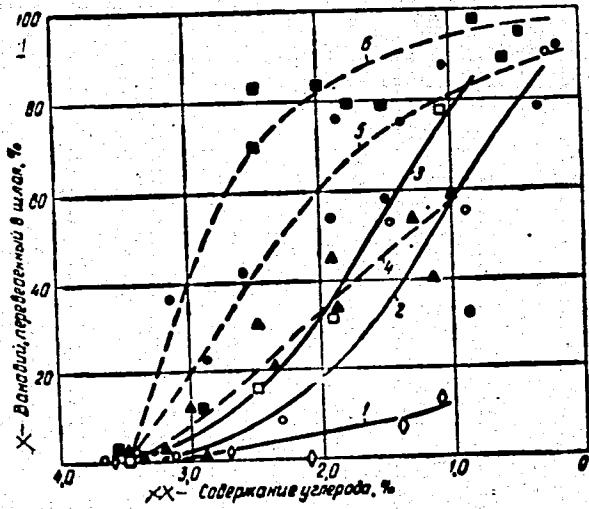


Fig. 1 - The effect of blast volume on oxidization of vanadium in basic furnace; (—) - air; (- - -) - oxygen. 1) 4-6.5 liter/min; 2) 29-35 liter/min; 3) 48 liter/min; 4) 4-4.35 liter/min; 5) 8.9 - 9.3 liter/min; 6) 11.2 - 34.7 liter/min;
x - % vanadium brought into slag;
xx - carbon content, %

Card 5/6

S/148/60/000/009/004/025
A161/A030

The behaviour of vanadium ...

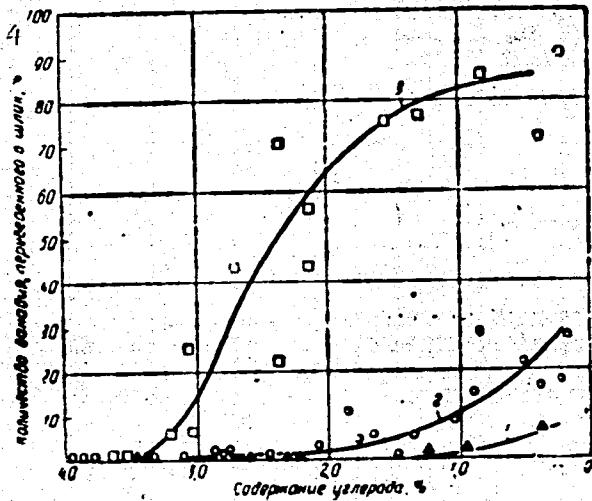


Fig. 4 - The effect of blast volume on oxidation of vanadium with an air blast in the acid furnace:
1) 7.2 - 7.3 liter/min;
2) 30 - 42 liter/min;
3) 50.2 - 56.4 liter/min

Card 6/6

SHURGIN, P.M.; BORONENKOV, V.N.; KRYUK, V.I.; REVEBTSOV, V.V.

Kinetics of the direct reduction of iron oxides from melts.

Izv. vys. ucheb. zav.; chern. met. 8 no.2:23-27 '65.

(MIRA 18:2)

1. Ural'skiy politekhnicheskiy institut.

GAVRILENKO, Yu.P.; CHEREDNICHENKO, Yu.N.; ULIZ'KO, I.S.; Prinimali uchastiye:
FAL'KEVICH, E.S.; YEGOROV, A.V.; NEKHOTSA, V.A.; REVEKKO, L.Ya.;
VASIL'YEV, Yu.B.; MAKSIMOV, V.M.; RAYTSIN, M.A.

Obtaining intricate, thin-walled titanium parts by casting in shell
molds. Titan i ego splavy no.9:270-273 '63. (MIRA 16:9)

(Titanium founding)
(Shell molding (Foundry))

REVAL'KIN, I.A.; BIRGULINA, R.I.; SOVAKHOVA, T.M.

Determining the molecular masses of mixture components using Martin's balance. Neftekhimiia 4 no.5:804-810 S-0 '64.

(MIRA 18:1)

S/0204/64/004/004/0624/0633

ACCESSION NR: AP4044555

AUTHOR: Revel'skiy, I. A., Borodulina, R. I., Khokhlova, T.D.

TITLE: Continuous determination of the H/C ratio in the molecules of components of hydrocarbon mixtures and other organic compounds

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 624-633

TOPIC TAGS: hydrogen, carbon, hydrocarbon, gas chromatography, molecular weight, quantitative analysis, elemental analysis

ABSTRACT: A continuous method is described for determining the elemental composition, molecular weight and functional groups of the components of hydrocarbon mixtures, separated by gas chromatography. Chromatograms are given for mixtures of ethylene, propylene and isobutene, before and after combustion, at 40C and a nitrogen flow rate of 25 ml/min. The experimental apparatus and procedure are described in detail. The ratio of the number of hydrogen atoms to the number of carbon atoms (m/n) in the molecule of each hydrocarbon component was calculated on the basis of the areas of the CO₂ and H₂ peaks after preliminary calibration. Hydrocarbons of at least 98% purity were used, and the tabulated data show an accuracy of 2-6%. It was also found that the m/n value

Card 1/2

ACCESSION NR: AP4044555

does not depend on the volume of the analytical sample. This makes it possible to determine m/n for any component of a mixture, the concentration of which is unknown. The continuous determination of the elemental composition of the components of a hydrocarbon mixture does not require either preliminary weighing of the sample or calibration of the detector for each component. This method can therefore be used for the elemental analysis of gases and for the analysis of small amounts (tenths of mg) of low-boiling compounds present in low concentration in chromatographic mixtures. The determination of the elemental composition of the components of non-hydrocarbon mixtures is more difficult. This can be determined only if the content (%) of the component in the mixture (i.e. its weight) and the weight of the whole sample are known. Determining the weight of each component of a hydrocarbon mixture makes it possible to carry out a rapid quantitative analysis without preliminary determination of corrections for heat conductivity. Formulas are given for calculating the C and H content in the molecule of the substance in % by weight. Orig. art. has: 4 tables, 5 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 27Nov63

NO REF SOV: 001

OTHER: 037

SUB CODE: OC

Card 2/2

REVEBTSOV, V.P.; ABRAMOV, B.A.; TANTSYREV, V.V.; ZAYTSEVA, Ye.I.

Results of using ferromanganese and manganese-silicon from
Polunochnoye deposit ores in the production of steel. Trudy Inst.
met. UFAN SSSR no.7:183-199 '61. (MIRA 16:6)
(Manganese alloys--Testing) (Steel--Metallurgy)

VESELOV, Nikolay Grigor'yevich; REVEBTSOV, V.P., retsenzent;
SKOROBOGACHEVA, A.P., red.izd-va; KOROL', V.P., tekhn.
red.

[Economics of blast furnace production] Ekonomika domennogo
proizvodstva. Moskva, Metallurgizdat, 1963. 219 p.
(MIRA 16:7)

(Iron industry)

REVEBTSOV, V.P.; ABRAMOV, B.A.; NAGOVITSYN, D.F.; LEBEDEV, A.A.;
OSIPOV, G.V.; TANTSYREV, V.V.; ISUPOV, V.F.; ZAITSEVA, Ye.I.

Quality of manganese ferroalloys from ores of the Polunochnoye
deposit. Stal' 21 no.9:806-809 S '61. (MIRA 14:9)

1. Institut metallurgii Ural'skogo filiala Akademii nauk;
Nizhne-Tagil'skiy metallurgicheskiy kombinat i Kombinat im.
Serova.

(Ferromanganese) (Polunochnoye region--Manganese ores)

REVEKO, G. S.

USSR/Metals
Zinc Alloys
Corrosion

Mar/Apr 1948

"Increase in the Corrosion Resistance of Zinc Plating and Zinc Alloys by Chromating,"
A. V. Turkovskaya, G. S. Reveko, Mem, Committee on Galvanostegy, 2 pp

"Vest Inzher i Tekhn" No 2

Zinc alloys or zinc coatings both increase the resistance to corrosion. Various factors, such as humidity of the atmosphere, chemical content of the air, salt water, etc., have various effects on the degree of corrosion resistance. Best results obtained from 5-second immersion in bichromate solutions. Chromating gives zinc reddish hue.

PA 65T77

REVELIS, I. L.

Blast-furnace waste-pile slag as component for cold asphalt beton. I. I. Revelis and L. A. Chernyak. *Trudy Khay'kov. Avtomobil.-Dorozh. Inst. No. 15, Sbornik Sledenchesk. Nauch. Rabot* 1953, No. 8, 17-19; *Referat. Zhur., Khim.* 1954, No. 48765.—A comparison was made of the asphalt concrete properties made with slag and with granite gravel. No significant difference between the two were found. M. Hesch.

(1)

REVELIS, M., inzh.-metodist; POLOZOV, V., prepodavatel'.

Training engineers and technicians at the Leningrad Metals Plant.
Sots.trud no.10:134-137 O '57. (MIRA 10:11)

1. Otdel tekhnicheskogo obucheniya Leningradskogo metallicheskogo
zavoda (for Revelis). 2. Kafedra politekonomii Leningradskogo
gosudarstvennogo universiteta im. Zhdanova (for Polozov).
(Leningrad-Turbines) (Technical education)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4

REVELOV, B. M.

Device for Stabilizing Bias Voltage of Terminal Tubes in Radio
Transmitters and Audio Frequency Amplifiers, Operating in a Grid
Current Regime. Patent, Class 2la⁴, 3514. No 103176; Elektrosvyaz'
No 1, Jan 57.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

SHNOL', S.E.; RUDNEVA, O.A.; NIKOL'SKAYA, Ye.L.; REVEL'SKAYA, T.A.

Variation of the amplitude of spontaneous actomyosin preparation transitions from one state into another during storage. Biofizika 6 no. 2:165-171 '61. (MIRA 14:4)

1. TSentral'nyy institut usovershenstvovaniya vrachey, Moskva.
(ACTOMYOSINS)

REVEL'SKIY, Aleksandr Leonidovich, polkovnik zapasa; SINYAYEV, A.D.,
red.; CHAPAYEVA, R.I., tekhn. red.

[Radiation and chemical reconnaissance] Radiatsionnaia i khiri-
cheskaia razvedka. Moskva, Voenizdat, 1962. 114 p.

(Atomic warfare) (Chemical warfare)

(MIRA 15:8)

BROGUINA, R. S.; RYVOLIKY, I. A.; SHTYENKO, I. A.

Chromatographic method for determining small amounts of acetonitrile
in acrylonitrile. Plast.massy no.7349-51 164. (MIR 17:10)

REVEL'SKIY, I.A.; BORODULINA, R.I.; SOVAKOVA, T.M.; KLIMOVA, V.G.

Rapid determination of the number of carbon and hydrogen atoms
in the molecules of gaseous compounds. Dokl. AN SSSR 159 no.4;
861-364 D '64 (MIRA 18:1)

1. Predstavleno akademikom M.I. Kabachnikom.

LEPIN, G.F.; VISHNEVSKIY, A.V.; LI SI-CHAN [Li Hsi-ch'ang]; BUDNEVSKIY, A.M.;
BORODULINA, R.I.; VERTEBNYY, P.Ya.; REVEL'SKIY, I.A.

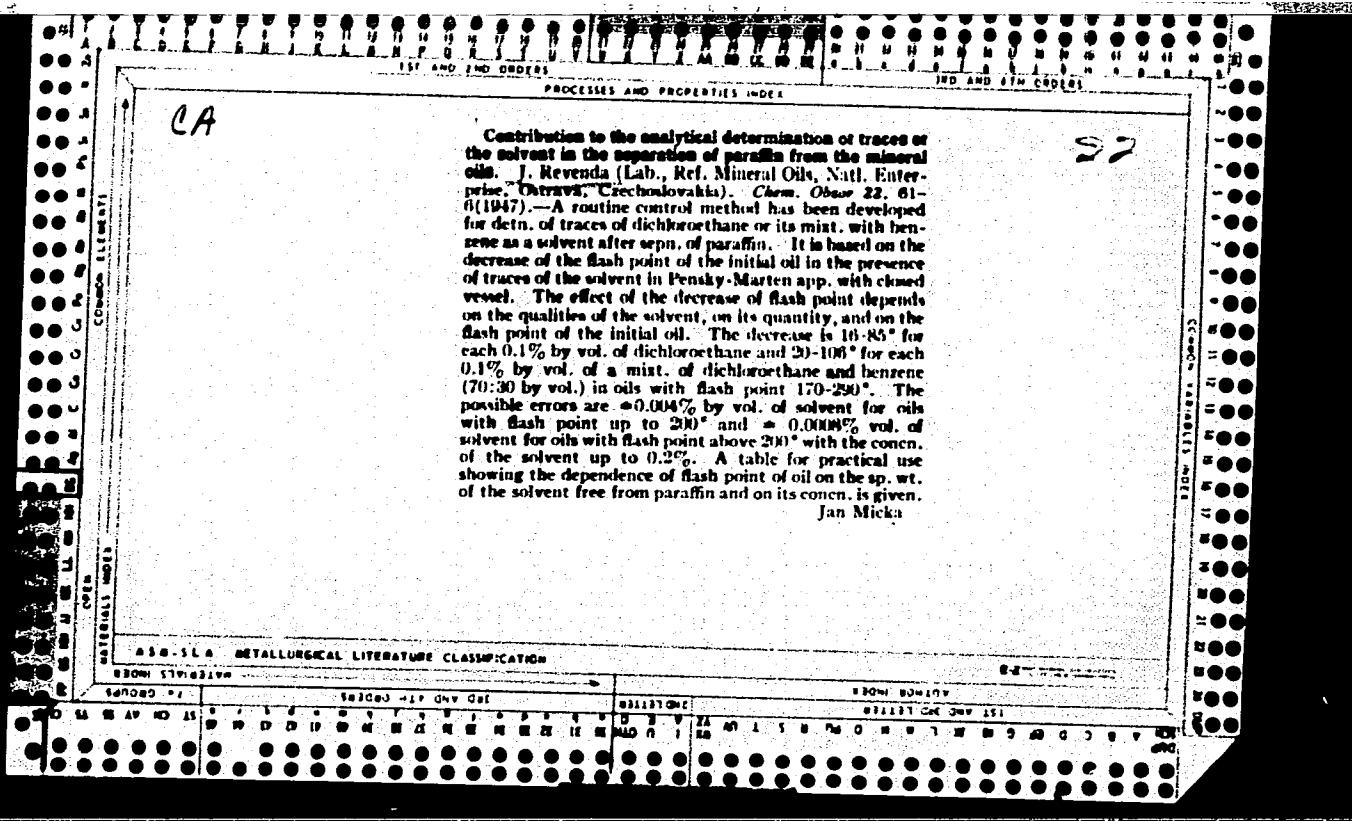
Exchange of experience. Zav.lab. 28 no.6:753-755 '62. (MIRA 15:5)

1. Kramatorskiy nauchno-issledovatel'skiy i proyektno-tehnologicheskiy institut mashinostroyeniya (for Lepin, Vishnevskiy).
2. Institut metallurgii imeni A.A. Baykova (for Li Si-chan, Budnevskiy).

(Metallurgical analysis)

REVEL'SKIY, I.A.; BORODIN'YA, N.I.; KHUSHIWA, T.A.

Continuous determination of the H/C ratio in the molecules of
the components of hydrocarbon mixtures and other compounds.
Neftekhimia 4 no.4(624-63) 21-4Ag - 1964. (MTRA 10 10)



CA

PROPERTIES AND PROPERTIES INDEX

Polarographic studies with the dropping-mercury electrode. I. Anodic polarization and the influence of anions
J. Reversible Cellulose Chem. Communications 6, 451-67 (1934).— Cl^- , Br^- , I^- , OH^- , S^{2-} , CN^- , SCN^- , SO_4^{2-} and $\text{S}_2\text{O}_3^{2-}$, in concns. greater than 10^{-3} molar, cause depolarization when the dropping-Hg electrode is used as anode. When the anion concns. are below 10^{-3} molar, their effect on the limiting currents of the amp.-voltage curves is proportional to the concn. of the anions. The magnitude of these currents is the same as that of the limiting currents because of the electrodeposition of cations at the dropping-Hg electrode. The depolarization potentials of anions are $\text{S}^{2-} = -0.70$ v., $\text{CN}^- = -0.62$, $\text{SCN}^- = -0.30$, $\text{SO}_4^{2-} = 0.07$, $\text{OH}^- = 0.00$, $\text{Br}^- = +0.04$, $\text{I}^- = +0.10$ and $\text{Cl}^- = +0.17$ v., from a N calomel electrode in 10^{-3} N solns. Hg was dissolved from the anode at $+0.30$ v. and greater. The effect of Cl^- , Br^- , I^- , OH^- and S^{2-} ions is due to ppt. formation with Hg^{2+} . That due to CN^- , SCN^- and SO_4^{2-} results from the formation of complexes. If more than one of these anions are present, they cause polarographic waves on the current-voltage curve.

H. E. Messmore

APPENDIX A. METALLURGICAL LITERATURE CLASSIFICATION

S/081/62/000/021/044/069
B171/B101

AUTHOR: Revenda, J.

TITLE: Effects of aromatic hydrocarbons on the quality of lubricating oils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 402, abstract 21M138 (Ropa a uhlje, v. 4, no. 2, 1962, 38-45 [Slov.; summaries in Russ., Eng., Ger., and French])

TEXT: A characteristic of the physicochemical properties of aromatic compounds contained in engine, transformer and cable oils is given. The author points out that the Czechoslovakian technical conditions and standards for lubricants disregard the chemical composition of oils and consider only certain physico-chemical constants, which do not completely represent the behavior of oils under working conditions. The necessity of change of such a situation is indicated. [Abstracter's note: Complete translation.]

Card 1/1

REVNDA, J.; LIEBL, X. - Paliva - Vol. 35, no. 2, Feb. 1955.

Utilizing waste products in the technological processing of petroleum. p. 46.

SO: Monthly list of East European Accesions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

Revenda, J.

13691^o (11a) Analytical Evaluation of Acid Sludges From
~~Coal Oil~~ Beitrag zur analytischen Beurteilung von
Säureharzen aus Mineralölen. J. Revenda and V. Szybinski
Chemische Technik, v. 6, no. 5, 1953, p. 284-287.
Marketing of possible derivatives. Table, 10 ref.

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CIA-RDP86-00513R001444720005-4

REWDW, Dept. 22.

Manufacturing Lubricating Oils. Rape a child 4-18-54-12
Ju'64.

1. Standard National Enterprise, Research Institute of Crude
Oil and Hydrocarbon Gases.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

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CIA-RDP86-00513R001444720005-4

REVENDA, Jan; BACUROVA, Emilia; VYJAN, Jan

Contribution to the furfural and cresol selectivity. Rop a
uhlie 6 no.12:364-375 D '64.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

S/081/62/000/005/074/112
3160/3138

AUTHOR: Revenda, Ján

TITLE: Better technology and economics for the process of refining
mineral oils with cresol. II

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 523, abstract
5M162 (Ropu a uhlje, v. 3, no. 6, 1961, 164 - 169)

TEXT: On the basis of an analysis of the equilibrium relationships of multi-component cresol and mineral oil extraction systems it is shown that the amount of water in the cresol is the most important technological and economic factor in the process of refining the oils. As the water saturation of the cresol increases, so does its selectivity increase and its solvent ability decrease. This causes an increase in the output of refined product; the critical solution temperature and the solvent-to-oil ratio rise, and the ability to form an emulsion decreases. The optimum water saturation of the cresol depends on the nature of the oil, and the extraction temperature t_e . For type 434 medium oils with good solubility in cresol and $t_e \sim 40^\circ$ the optimum water content in the cresol is 11 % by

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S/061/62/000/005/074/112

B160/B138

Better technology and economics ...

weight; maximum selectivity is achieved at this value and water is not forced out of the cresol. For type 460 oils with poor solubility in cresol and $t_e \sim 50 - 70^\circ$ the optimum water content in the cresol is 7 - 8 % by weight, and 8 - 10 % by weight for type 453 heavy oils with $t_e = 40 - 50^\circ$.

Under these refining conditions it is suggested that a rotary disc column should be used instead of the present unwieldy and unproductive equipment. It was found that the power and specific load of this column can be controlled in dependence on the r.p.m. of the rotor. For basic oils the optimum specific load is 25 - 30 l/dm²/hr with 0.8 - 1.2 theoretical extraction stages. When the suggested conditions were applied with a rotary disc column the output of refined oil rose by 6 - 10 % by weight, the cost price was reduced by 58 - 91 Czechoslovakian crowns per ton product, and the consumption of electric power was reduced by 20 - 30 kWh per ton raw material. For Part I see RZhKhim, 1961, abstract 20M117. [Abstracter's note: Complete translation.]

Card 2/2

2/011/62/019/007/001/005
E073/E435

AUTHOR: Revenda, Y.

TITLE: Influence of aromatic hydrocarbons in lubricating oils
on their quality

PERIODICAL: Chemie a chemická technologie. Práhled technické a.
hospodarske literatury, v.19, no.7, 1962, 315,
abstract Ch 62-4308. (Ropa a Uhlie, v.4, no.2, 1962,
38-44)

TEXT: The influence of the physical and chemical properties of
aromatics in oils on their service performance and the problem of
technological treatment for conserving the required aromatics in
oils are dealt with. Evaluations and tests will have to be
reorientated from physical and chemical constants to the chemical
composition. 22 tables, 9 literature references.

[Abstracter's note: Complete translation.]

Card 1/1

REVENIA, Jan

Efficiency of the Reonyl 1500 pour-point depressor. Rop a uhlis
7 no.4:102-103 Ap '65.

1. Research Institute of Petroleum and Hydrocarbon Gases of
the Slovnaft National Enterprise, Bratislava.

USSR/ Miscellaneous

Card 1/1 : Pub. 89 - 19/28

Authors : Rodionov, S. and Revenkov, A.

Title : Exchange of experiences

Periodical : Radio 1, page 42, Jan 1954

Abstract : Two individual articles are presented under the above title. One deals with photo-printing on metals, and the other with the replacement of 30PIM tubes in AR3-49 radio receivers by beam tetrodes.

Institution:

Submitted:

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CIA-RDP86-00513R001444720005-4

HEVENKOV, A. (Tallinn)

Replacing tube 30PIM in a АНЛ-49 receiver. Radio no. 1:42 Ja '54.
(MLRA 7:1)

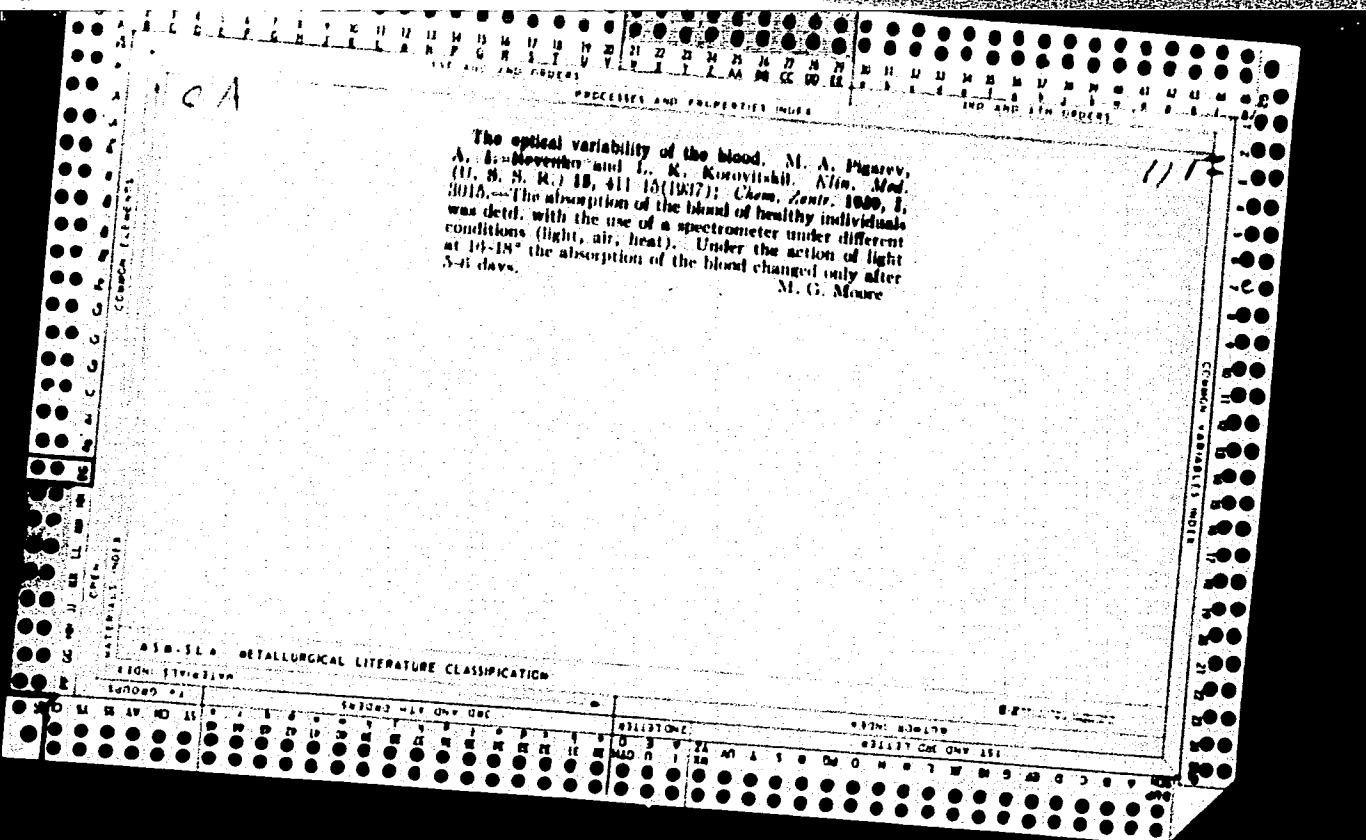
(Vacuum tubes)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

REVENKO, A. D.

Cand Tech Sci - (diss) "Statistical study of the wear of engines and the determination of characteristics for designing parts having wear-resistance." Kiev, 1961. 22 pp; (Main Board of Civil Air Fleet under the Council of Ministers USSR, Kiev Inst of Civil Air Fleet); 180 copies; free; (KL, 6-61 sup, 224)



REVENKO, A. P.

Revenko, A. P. "The system of steel cementation with Saratov natural methane gas", Sbornik sots. dokladov Brat. gor. nauch.-tehn. konf-tsii predpriyatiy Mashinostroit. i metalloobrabotki, 1953, No. 19.

APPROVED FOR RELEASE: 06/20/2000-19. CIA-RDP86-00513R001444720005-4"

SC: U32M1, 10 April 53. (Letopis 'nykh Statey, No. 11, 1949).

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4

REVENKO, G.P., meditsinskaya sestra; SHARPA^N, A.S., kand.med.nauk (Moskva);
NOVIKOV, I.M. (Stalino)

Nurses' councils. Med.sestra 18 no.10:46-48 O '59. (MIRA 13:1)
(NURSES AND NURSING)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444720005-4"

REVENKO, I., michman

Do you know? Be able also to explain! Starsh.-serzh. no.8:10
(MIRA 14:10)
Ag '61.
(Naval education)

REVENKO, I.F.; KONOVALOV, I.M., kalibrovshchik

Improved grooving of strand mills. Metallurg 3 no.6:23-25
Je '58. (MIRA 12:1)

1. Machal'nik sortoprokatnogo tschka Stalinskogo metallurgicheskogo
zavoda (for Revenko). 2. Sortoprokatnyy tschka Stalinskogo metallurgi-
cheskogo zavoda (for Konovalov).
(Rolling mills)

ETIGIN, M.G.; REVENKO, I.F.

Economic work at the Donotak and the Nikoevka metallurgical
plants. Metallurg 10 no.12:39-40 D '65.
(MIRA 18:12)

YEKTOV, I.M.; ZARUYEV, V.M.; GUROV, S.A.; REVENKO, I.F.; V rabote
prinimali uchastiye : KALMANOVICH, Yu.R.; GRIGOR'YEV, F.N.;
KOSHLENKO, A.M.; LITVINENKO, Yu.P.; DMITRIYEV, V.D.;
POLYAKOV, V.V.; PETUSHKOV, Ye.S.; PIRSOV, P.V.

Rolling double bulb-bar shapes with longitudinal cutting in
the finishing mill. Stal' 20 no. 12:1113-1115 D '60.
(MIRA 13:12)

1. Stalinskiy metallurgicheskiy zavod i Donetskiy politekhnicheskiy institut.
(Rolling (Metalwork))

SOV/130-58-6-10/20

AUTHORS: Revenko, I.F. and Konovalov, I.M.

TITLE: Improving Roll-pass Design of Section Mills (Usover-shenstvovaniye kalibrovok sortovykh stanov)

PERIODICAL: Metallurg, 1958, Nr 6, pp 23 - 25 (USSR)

ABSTRACT: At the Stalingrad Metallurgical Works, a re-examination has been made of roll-pass design for rolling a number of profiles on all rolling mills. The authors describe some of the changes, which aimed at reducing the labour of the operators, improving product quality and making load distribution over the working stands more uniform. They first deal with the 400 mill, which is in two lines with 550-mm dia. rolls in the reducing stand and with 400-mm dia. rolls in the three-stand finishing train. The new (1957) GOST for spring steel with its reduced tolerances made it necessary to abandon the former scheme (Figure 1a) in favour of one (Figure 1b) in which the 107X55 mm product of the reducing stand is rolled with the same number of passes but involving edge passes. This mill rolls spring strip from 55S2 and 60S2 steels; its productivity is said to have been unchanged through the adoption of the new scheme. The authors next consider the 350-mill with a reducing stand with 500 mm dia. rolls and a four-stand finishing train. Here

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Improving Roll-pass Design of Section Mills

SOV/130-58-6-10/20

two passes have been eliminated (Figure 2) in rolling Nr 24 hexagonal bars enabling rolling to be completed at a higher temperature. For rolling 22-mm squares, the system has been changed (Figure 3) from diamond-square to diamond-diamond, reducing the number of passes from seven to five. A similar type of change was made for rolling 26- and 27-mm dia. rounds and 21 x 26, 30 x 16, 30 x 18 and 35 x 18 strip. Mill productivity rose by 15-18% for the hexagonal and square and by 10-15% for the rounds. Finally, the authors describe roll-pass design changes on the 250 mill, which is in three lines: the reducing stand has 500-mm dia. rolls, the middle line has two stands with 350 mm dia. rolls and the finishing line has five stands. The roll-pass design is such that all passes in the reducing and middle lines are constant for all profiles. The rolling of 8 x 16 mm strip of 55S2 steel has been adopted at the mill with a square, diamond, diamond, square with concave

Card 2/3 :-

SOV/130-58-6-10/20

Improving Roll-pass Design of Section Mills

faces and smooth barrel as the successive passes (Figure 4) giving successful results.

There are 4 figures.

ASSOCIATION: Stalinskiy metallurgicheskiy zavod
(Stalinsk Metallurgical Works)

Card 3/3

1. Rolling mills - Performance
2. Rolling mills - Design
3. Rolling mills - Production

SOV/137-57-11-21300

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 96 (USSR)

AUTHOR: Revenko, I.F.

TITLE: The Work of the Stalino Metallurgical Plant on the Rolling of Economical Shapes, and Certain Problems of Organization Related to the Development of That Work (O rabote Stalinskogo metallurgicheskogo zavoda po prokatke ekonomichnykh profiley i o nekotorykh organizatsionnykh voprosakh, svyazannykh s ikh osvoyeniyem)

PERIODICAL: V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profizdat, 1956, pp 389-391

ABSTRACT: Problems dealing with the work of the section-rolling mill at the plant are discussed.

P.N.

Card 1/1